

MATERIAL SAFETY DATA SHEET

> 751 Water Street Gloucester Cltv New Jersey 08030 USA

Tel: (800) 5AMSPEC (856) 456-3930 FAX: (856) 456-6704 Rev. date: October 25, 1999

# **1 – PRODUCT IDENTIFICATION**

Product Name:	Antimony Oxide (all grades) Syn: antimony trioxide, antimony(III) oxide AMSPEC CHEMICAL CORPORATION 751 Water Street Gloucester City, NJ 08030 USA	
Manufacturer:		

Emergency (856) 456-3930 or (800) 526-7732 Contact Chemtrec: (800) 424-9300

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Material or Component:	CAS No.	EINECS #	EU # % composition
Antimony oxide	1309-64-4	2151750	051-005-00-X 99.9+%

FORMULA: Sb<sub>2</sub>O<sub>3</sub>

#### 3. HAZARDS IDENTIFICATION

#### Designation: Harmful Xn

#### **Risk Phrases:**

R40 Possible risks of irreversible effects.

#### WHMIS designation:

Class D division 2 - Materials causing other toxic effects.

#### 4. FIRST AID MEASURES:

Immediately flush with water for at least 15 minutes. Get medical attention if irritation persists. Wash contaminated area with soapy warm water. Consult a physician if irritation develops or persists. Remove to fresh air; if breathing is difficult, give oxygen. Consult a physician. Inhalation: Consult a physician immediately.

Ingestion:

## 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Product is not flammable. Use extinguishing agents suited to burning materials.

Exposure Hazards: When heated to decomposition, emits irritating fumes.

Protective Equipment for Fire Fighting: Use self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

### 6. ACCIDENTAL RELEASE MEASURES

Wear an approved high-efficiency dust/fume respirator. If not contaminated, scoop up for reuse. If contaminated, scoop or vacuum into container for disposal. Avoid dusting. Dispose of empty containers in accordance with all applicable federal, state and local laws.

## 7. HANDLING AND STORAGE

Avoid dust formation. Wear gloves, long sleeved shirt, and eye protection. Do not eat, drink, or smoke in the workplace.

Store in well-ventilated dry area. Do not store in open, inadequate, or mislabeled packaging.

Store away from acids, alkalis and reducing agents.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Local exhaust ventilation sufficient to maintain exposure levels below exposure limit concentrations.

Exposure Limits:	USA PEL:	EU:
Antimony oxide:	0.5 mg/m <sup>3</sup> , as Sb	0.5 mg/m <sup>3</sup> , as Sb
	(TWA)	(TWA)

Personal Protective Equipment:

- Respiratory protection as needed.
- Safety glasses, goggles to prevent eye contact with product.
- Gloves; protective clothing as necessary to prevent skin contact.

General Precautions:

- Use only with adequate ventilation.
- Avoid breathing dusts.
- Avoid skin and eye contact.
- Wash thoroughly after handling, and before eating, drinking, smoking or hygiene activities.
- Keep containers closed.
- Change clothing before leaving the job-site, or if exposed to heavy dusts or spillage; clothing should be laundered before reuse.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 1425°C MELTING POINT: 656°C DENSITY: 52.-5.7 g/cm<sup>3</sup> VAPOR PRESSURE: 0.406 mmHg at 550°C VAPOR DENSITY (Air = 1): Not available. SOLUBILITY IN H<sub>2</sub>O: .001g/100ml @25°C APPEARANCE AND ODOR: White, crystalline powder; odorless. OXIDIZING PROPERTIES: Not applicable. AUTOFLAMMABILITY: Not applicable. EXPLOSIVE PROPERTIES: Not applicable. FLASH POINT: Not applicable. IGNITION: Not applicable. VISCOSITY: Not applicable.

## 10. STABILITY AND REACTIVITY

Thermal Decomposition: None expected.

Conditions Contributing To Instability: None expected

Incompatibility: Avoid contact with acids, bases, reducing agents; toxic products of reaction may be generated.

Hazardous Decomposition Products: None expected.

### 11. TOXICOLOGIC INFORMATION

**Toxicity Data:** 

LD <sub>50</sub>	Dermal:	(rabbit)>2g/kg
$LD_{50}$	orl:	(Rat)1>34.6g/kg

Primary Routes of Entry: Inhalation, ingestion, eye and skin contact.

#### Symptoms and Effects Of Overexposure:

Inhalation of the dust may cause irritation of the respiratory tract. May cause eye irritation and may be irritating to the skin of sensitive individuals. Prolonged or repeated skin contact causes skin irritation and red, pimply skin eruptions or lesions referred to as "antimony measles". Irritation is aggravated when skin surface is moist as when perspiring.

Chronic inhalation has resulted in benign pneumoconiosis. A long-term inhalation study indicated commercial grade antimony oxide may have caused malignant lung tumors in laboratory rats. IARC cancer review: Group 2B. DFG MAK listed animal carcinogen, Suspected human carcinogen.

#### 12. ECOLOGICAL INFORMATION

EC <sub>50</sub> -48h (Daphnia Magna)	>1000mg/l (Janssen Biotech 8/6/90)
LC <sub>50</sub> -96h (Brachydanio Rerio)	>1000mg/l (Janssen Biotech 8/6/90)

# 13. DISPOSAL CONSIDERATIONS

Dispose of empty containers and any unused product in accordance with national, state and local laws. Handle full or empty bags in a manner to avoid dusting.

## 14. TRANSPORT INFORMATION

For packages greater than 1,000 lbs

UN. NO: UN3077	RID/ADR: n/a	ADNR: n/a
IATA: n/a	IMDG CODE: n/a	
HAZARD CLASS: 9		
PACKING GROUP: 3		

For packages less than 1,000 lbs

UN. NO: NONE	RID/ADR: n/a	ADNR: n/a
IATA: n/a	IMDG CODE: n/a	
HAZARD CLASS: not regulated		
PACKING GROUP: none assigned		

### 15. **REGULATORY INFORMATION**

Symbol and indication of danger: Xn, Harmful

Package and labeling:

- R 40 Possible irreversible effects.
- S 22 Do not breathe dust.
- S 36 Wear suitable protective clothing.

This product contains antimony and is subject to the U.S. EPA reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40CFR372.

The components of this product are listed in the U.S. EPA TSCA chemical substance inventory.

This product contains a chemical known by the state of California to cause cancer as per California Proposition 65.

# 16. OTHER INFORMATION

The information presented herein is believed to be correct but is not purported to be all inclusive and shall be used only as a guide. AMSPEC Chemical shall not be held liable for any damage resulting from handling or from contact with the above product.